

3/37

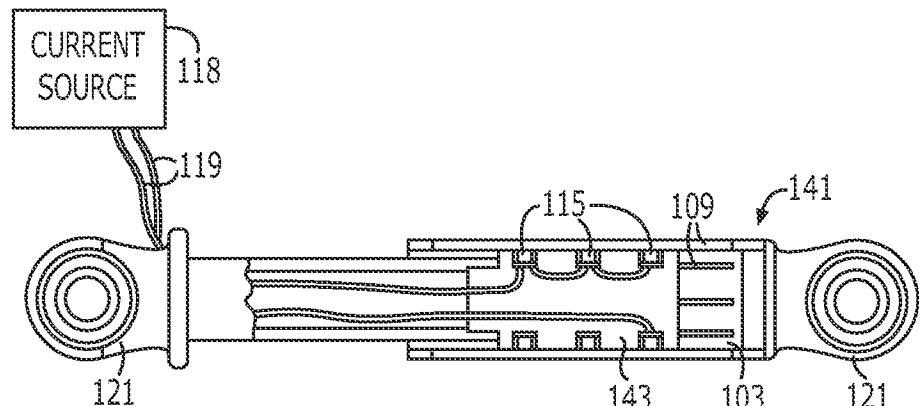


FIG. 7

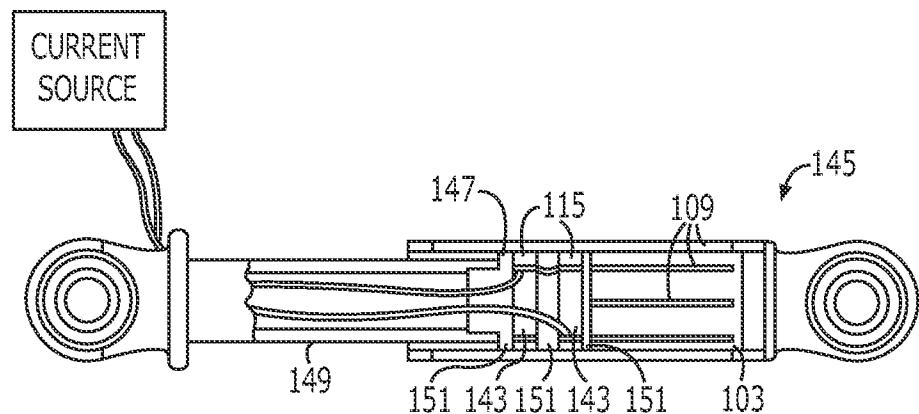


FIG. 8

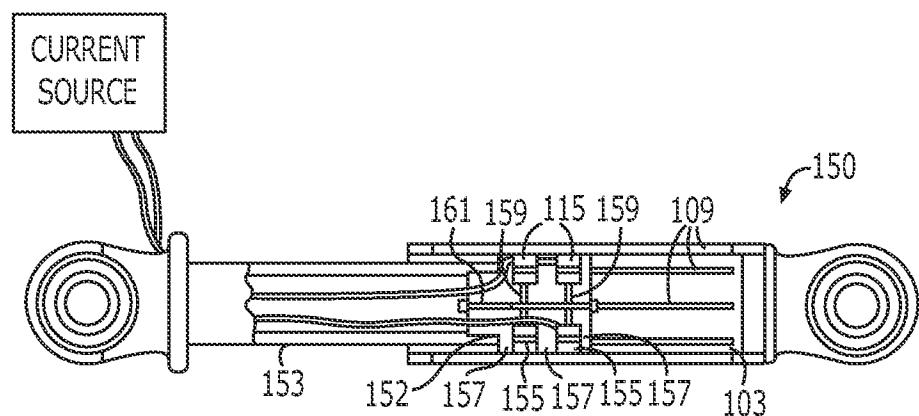


FIG. 9

4/37

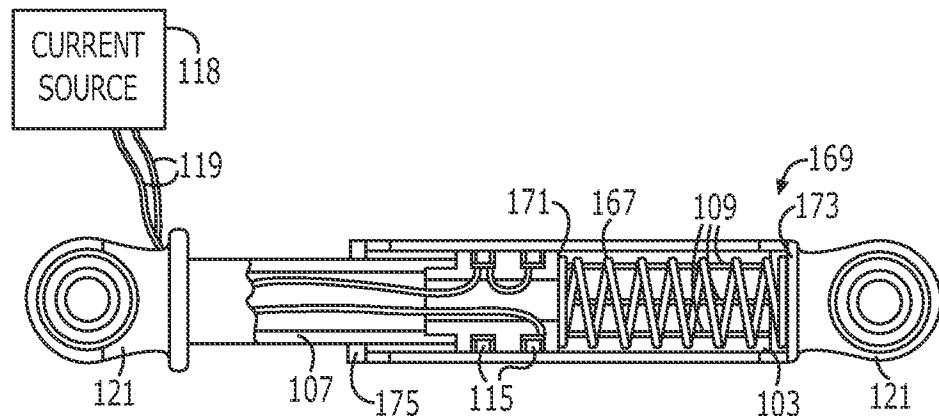


FIG. 10

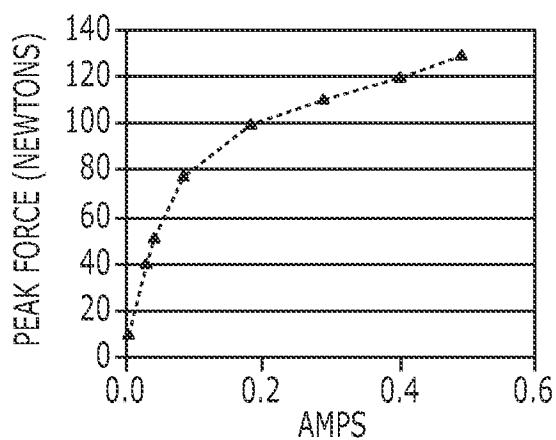
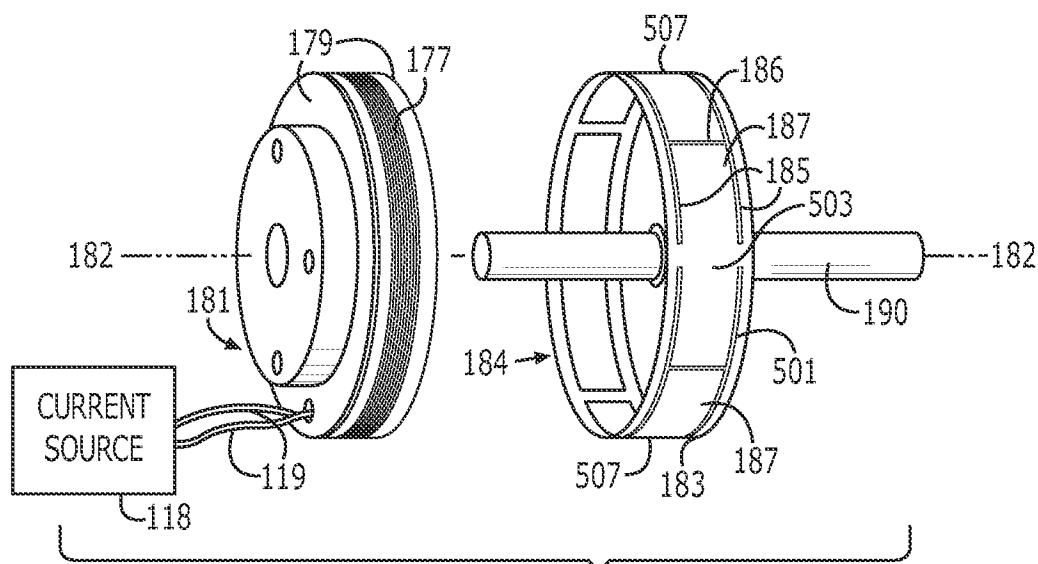
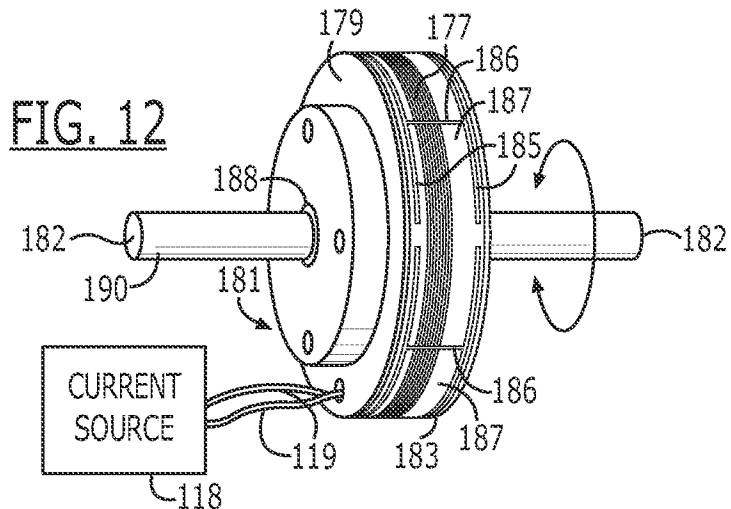
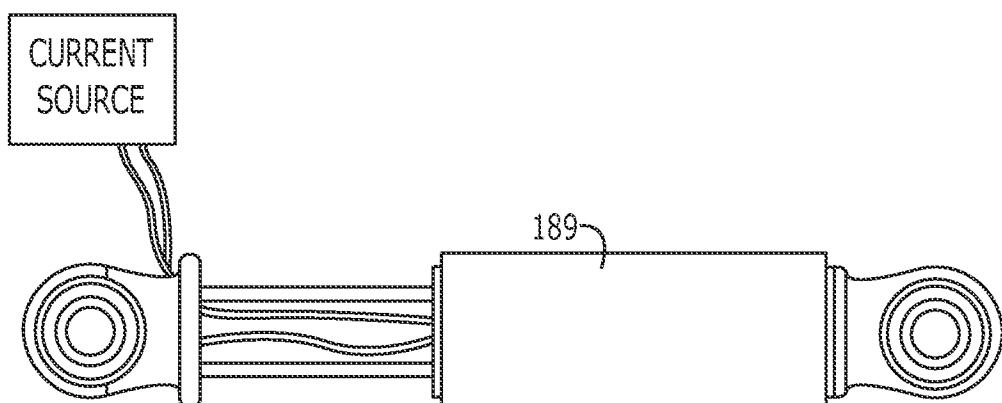


FIG. 11

5/37

**FIG. 13****FIG. 14**

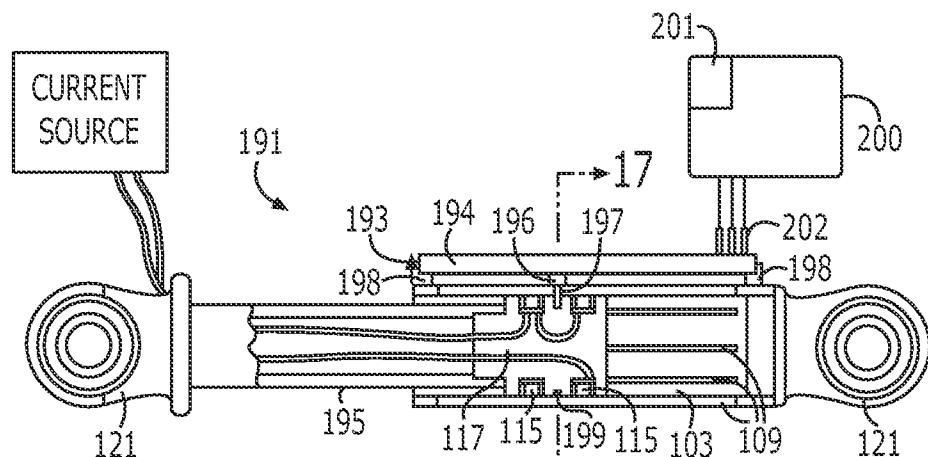


FIG. 15

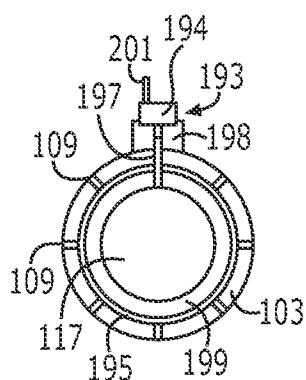


FIG. 16

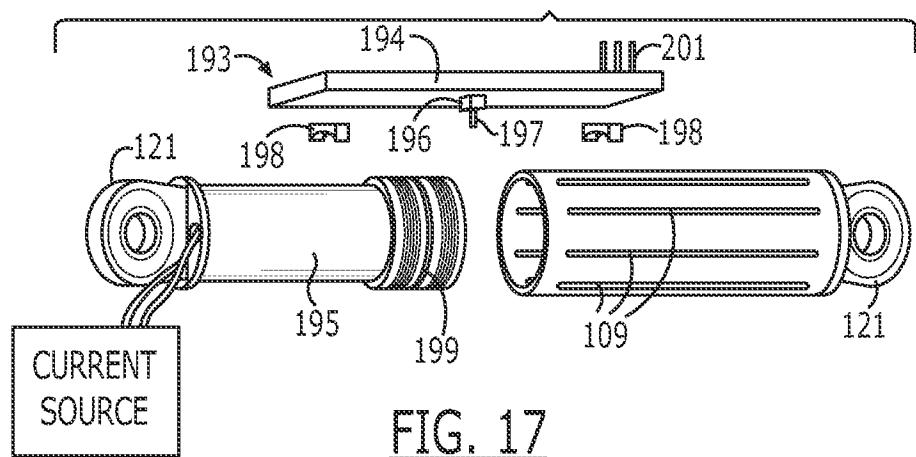


FIG. 17

7/37

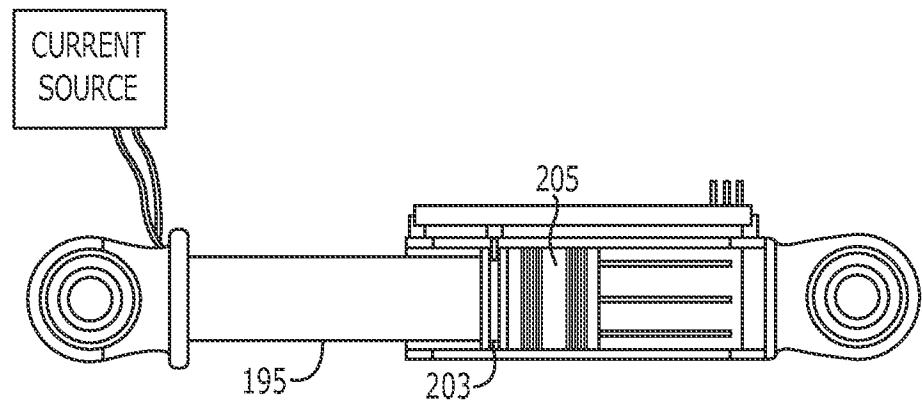


FIG. 18

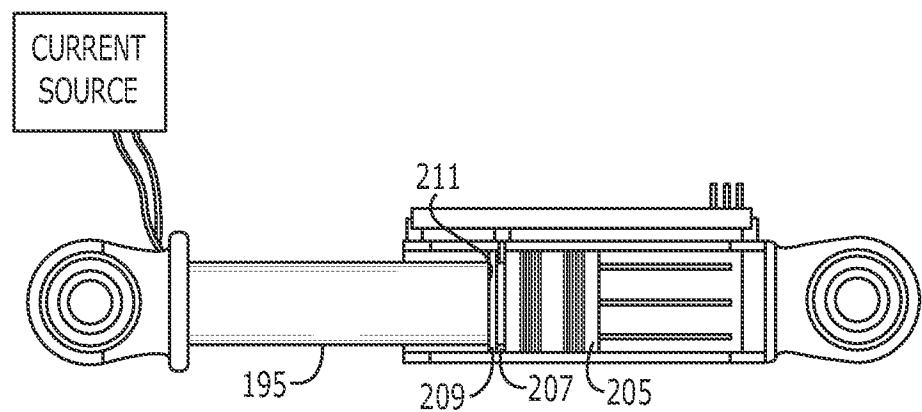


FIG. 19

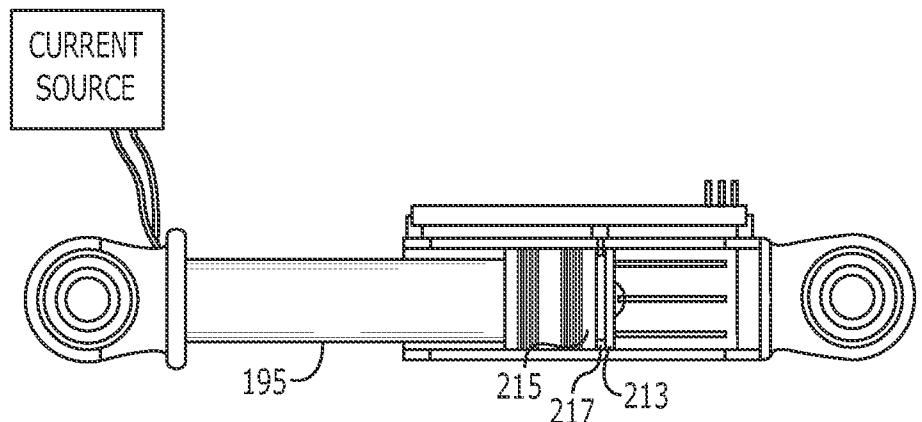


FIG. 20

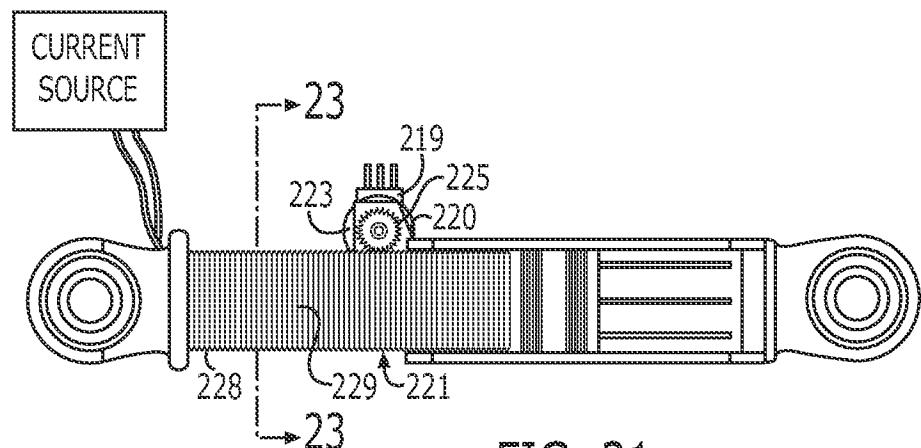


FIG. 21

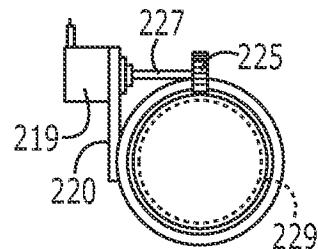


FIG. 22

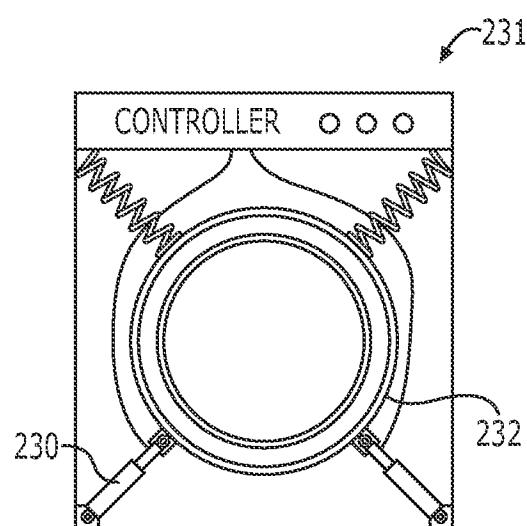


FIG. 23

9/37

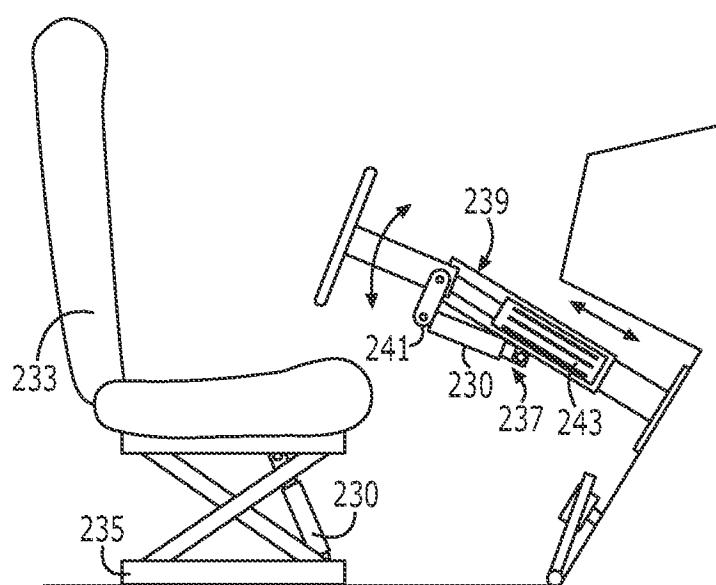


FIG. 24

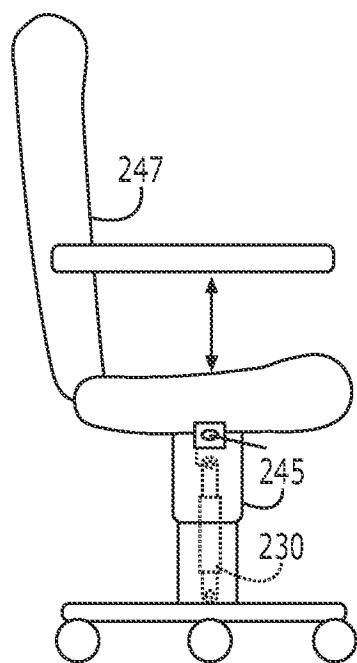


FIG. 25A

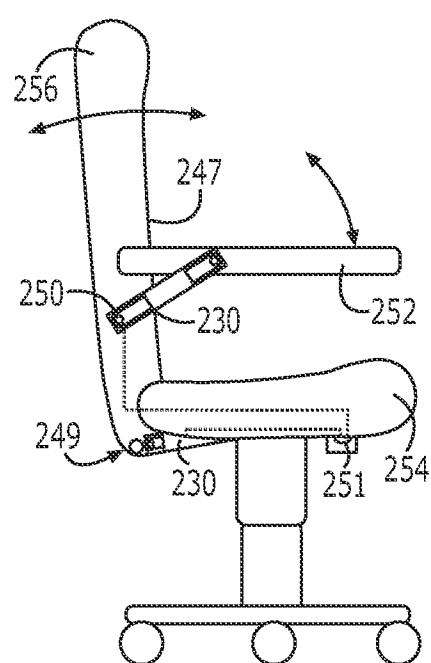
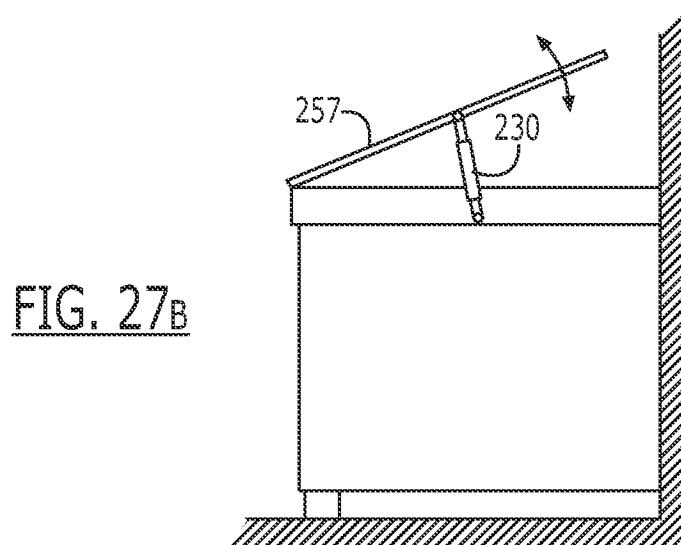
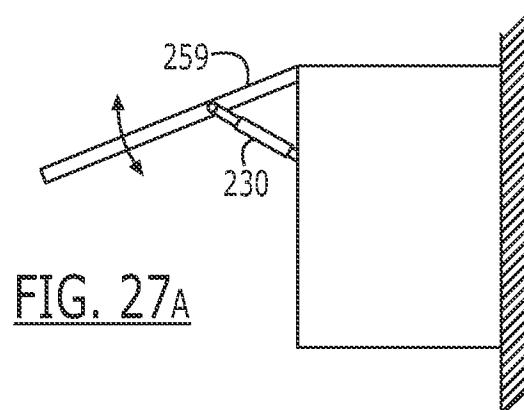
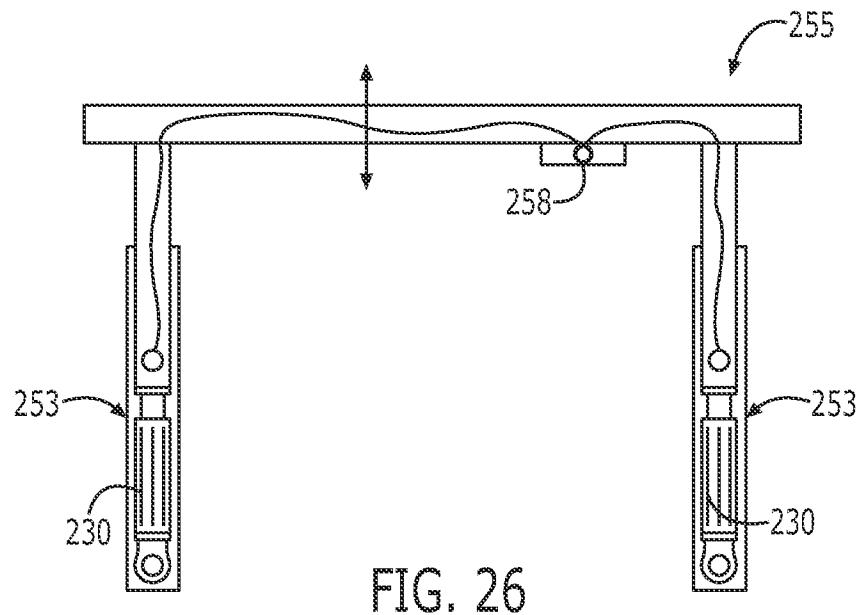


FIG. 25B

10/37



11/37

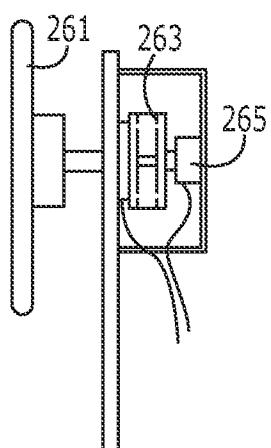


FIG. 28

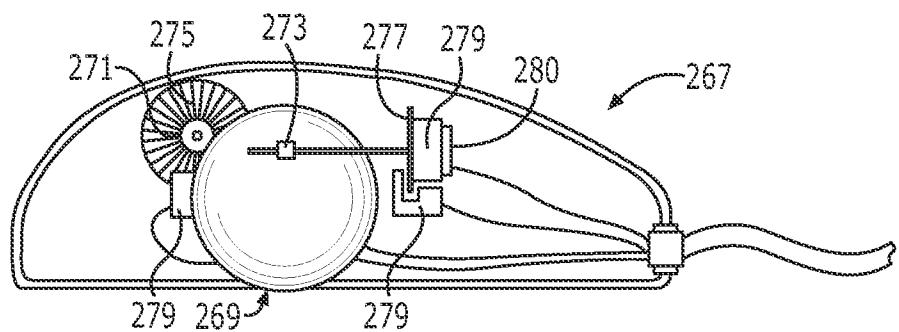


FIG. 29

12/37

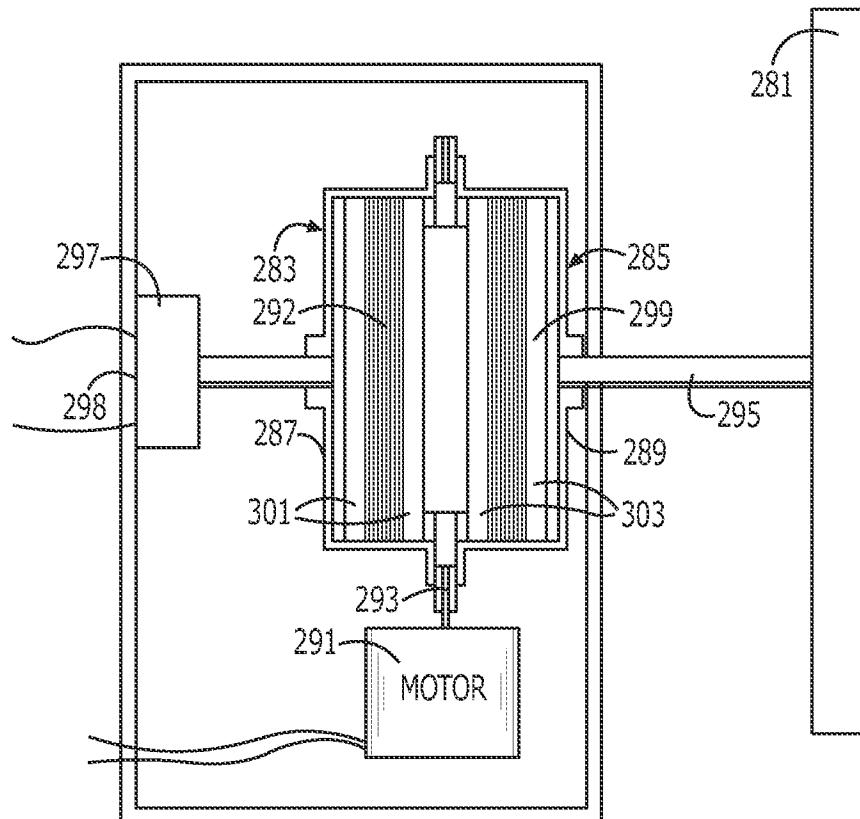


FIG. 30

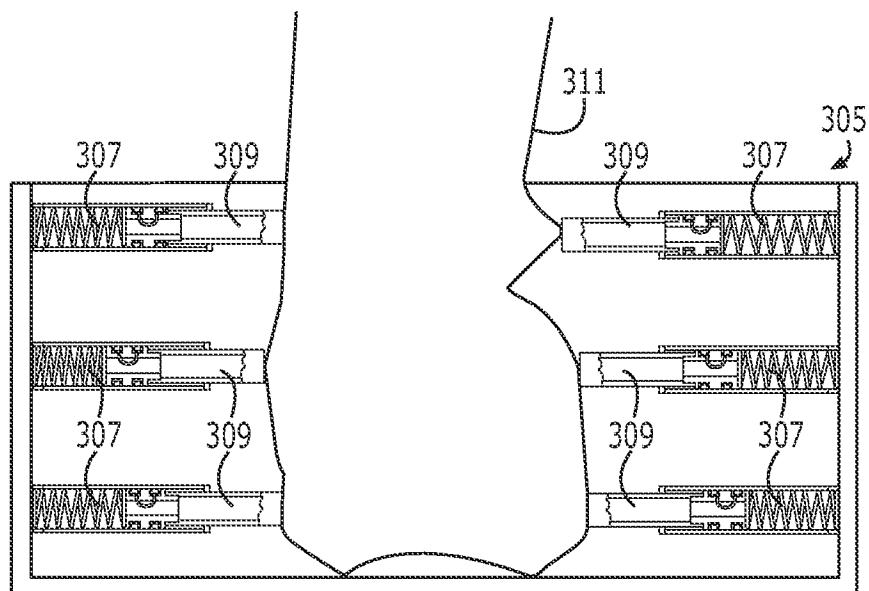


FIG. 31

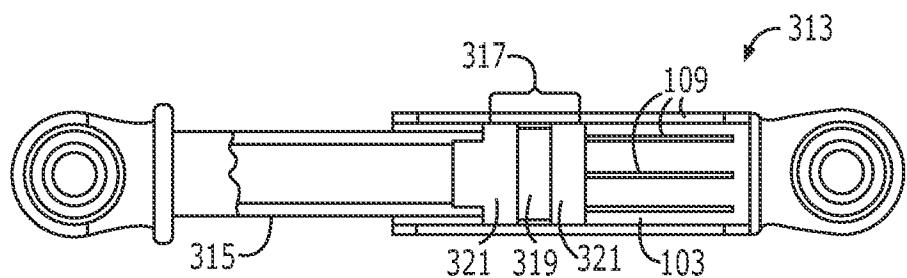


FIG. 32

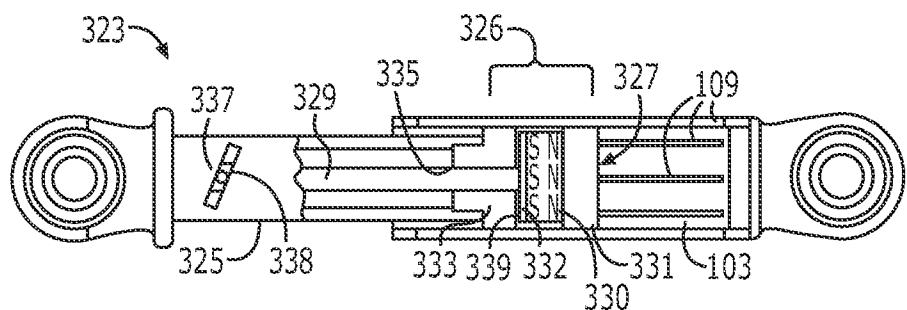


FIG. 33

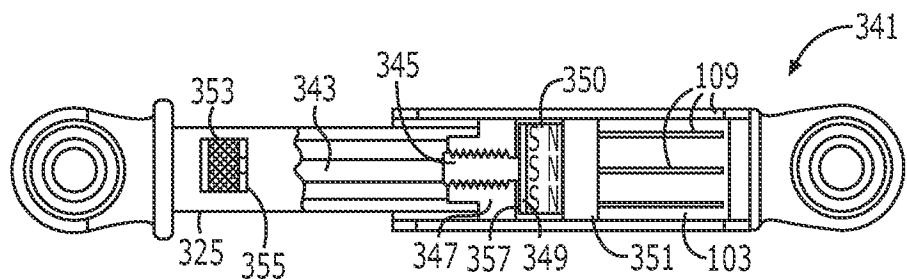


FIG. 34

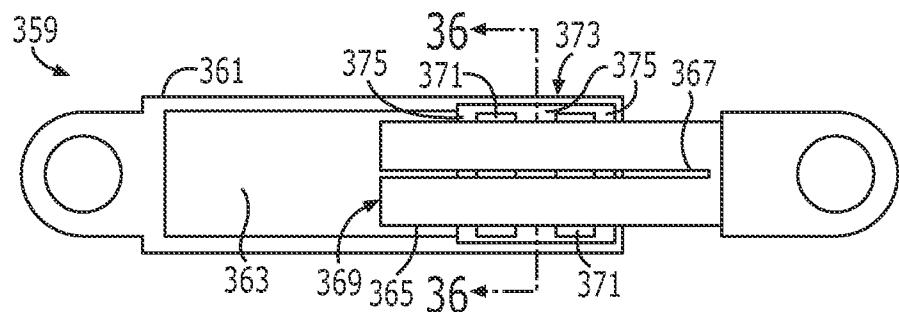


FIG. 35A

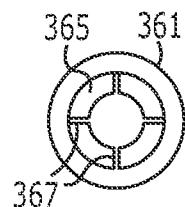


FIG. 35B

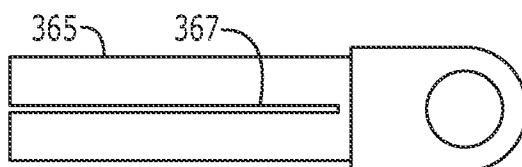


FIG. 36A

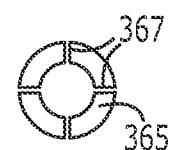


FIG. 36B

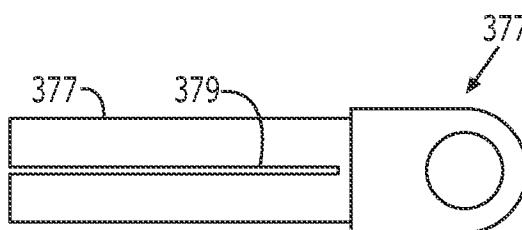


FIG. 37A

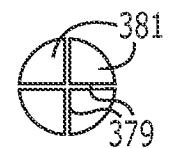


FIG. 37B

15/37

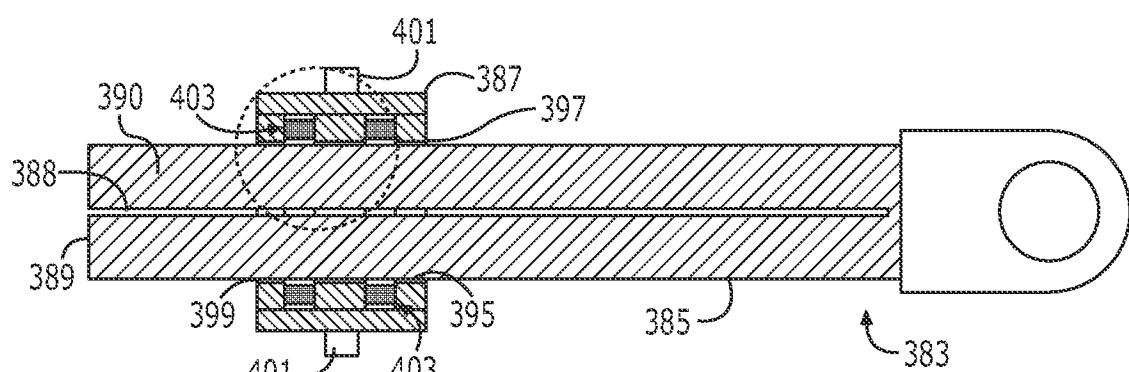


FIG. 38

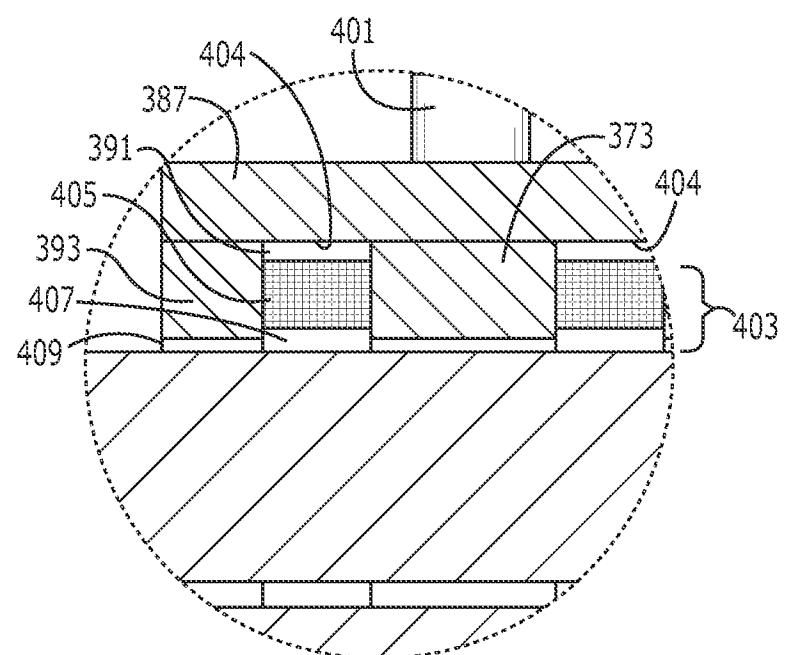
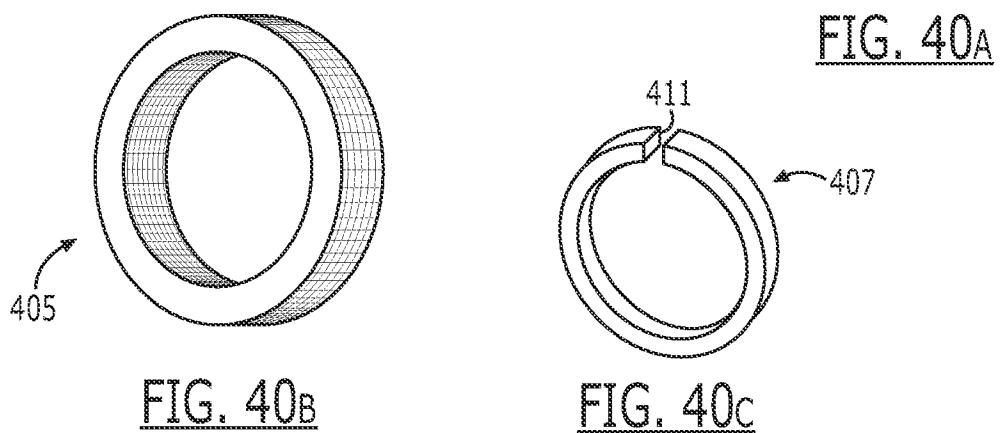
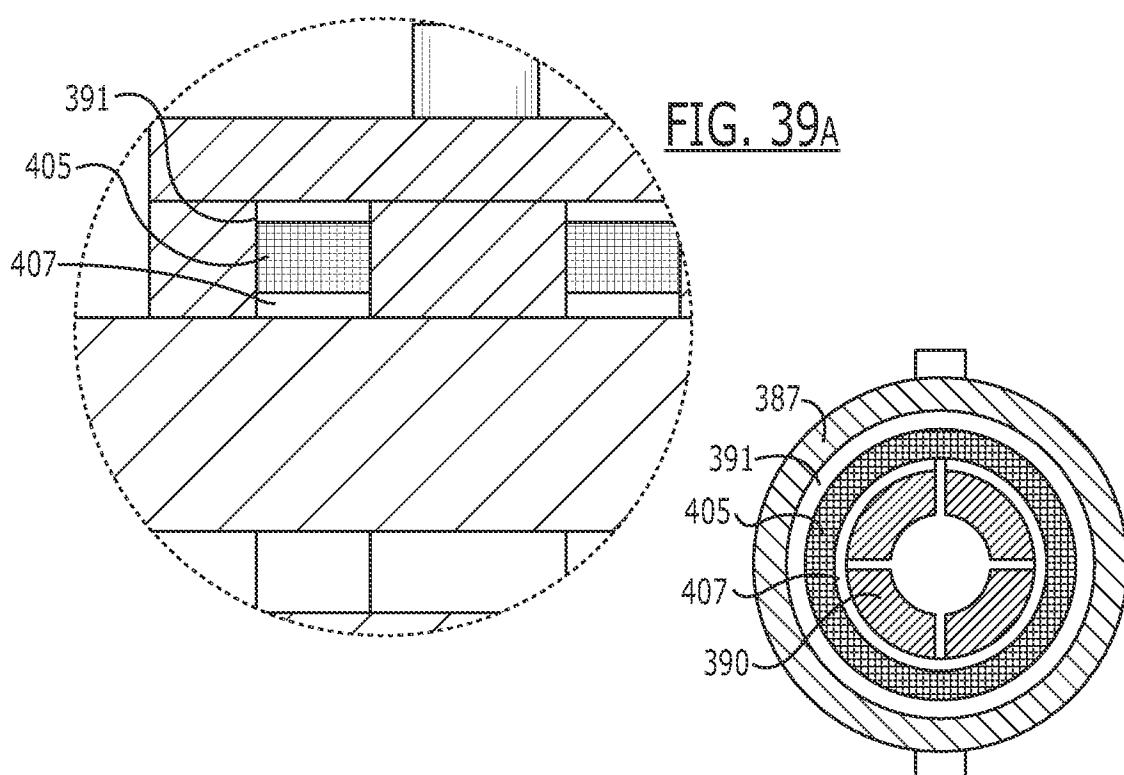
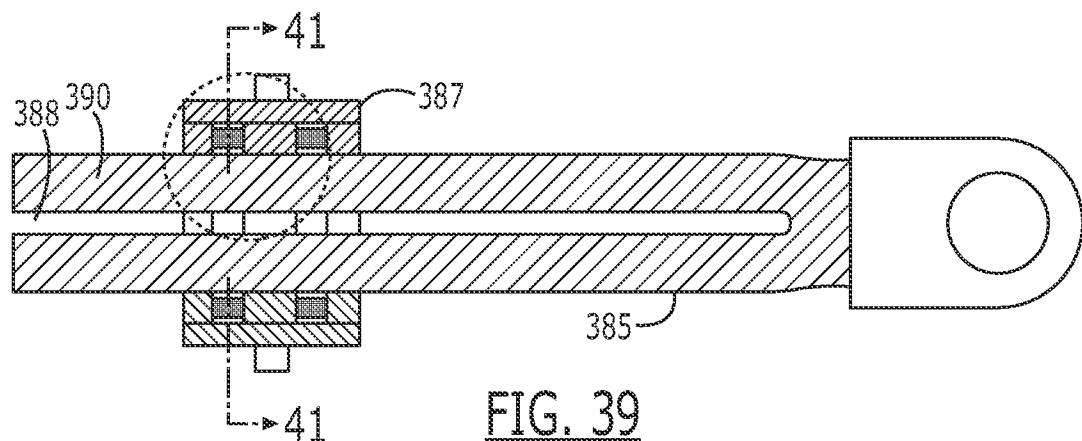


FIG. 38A



17/37

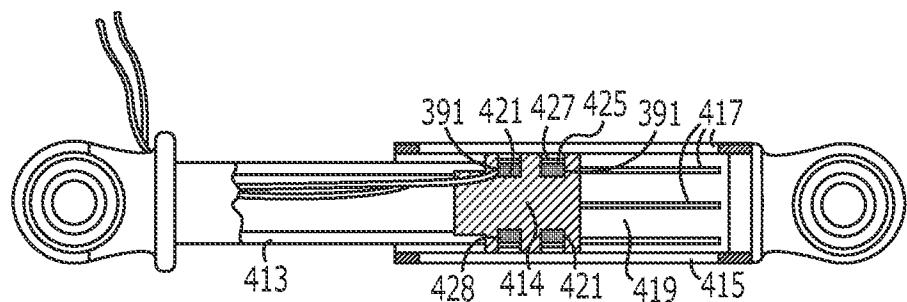


FIG. 41

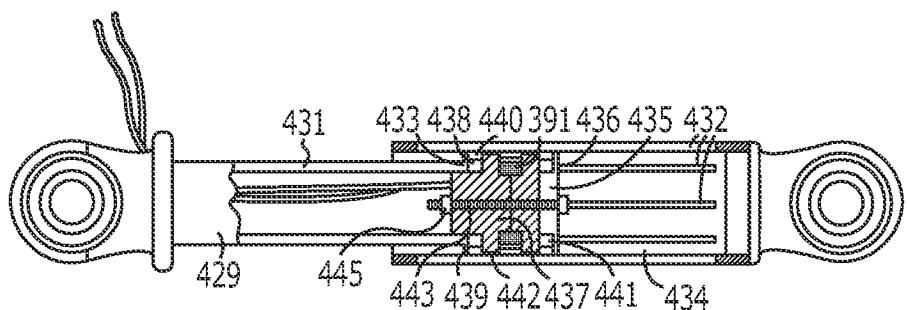


FIG. 42

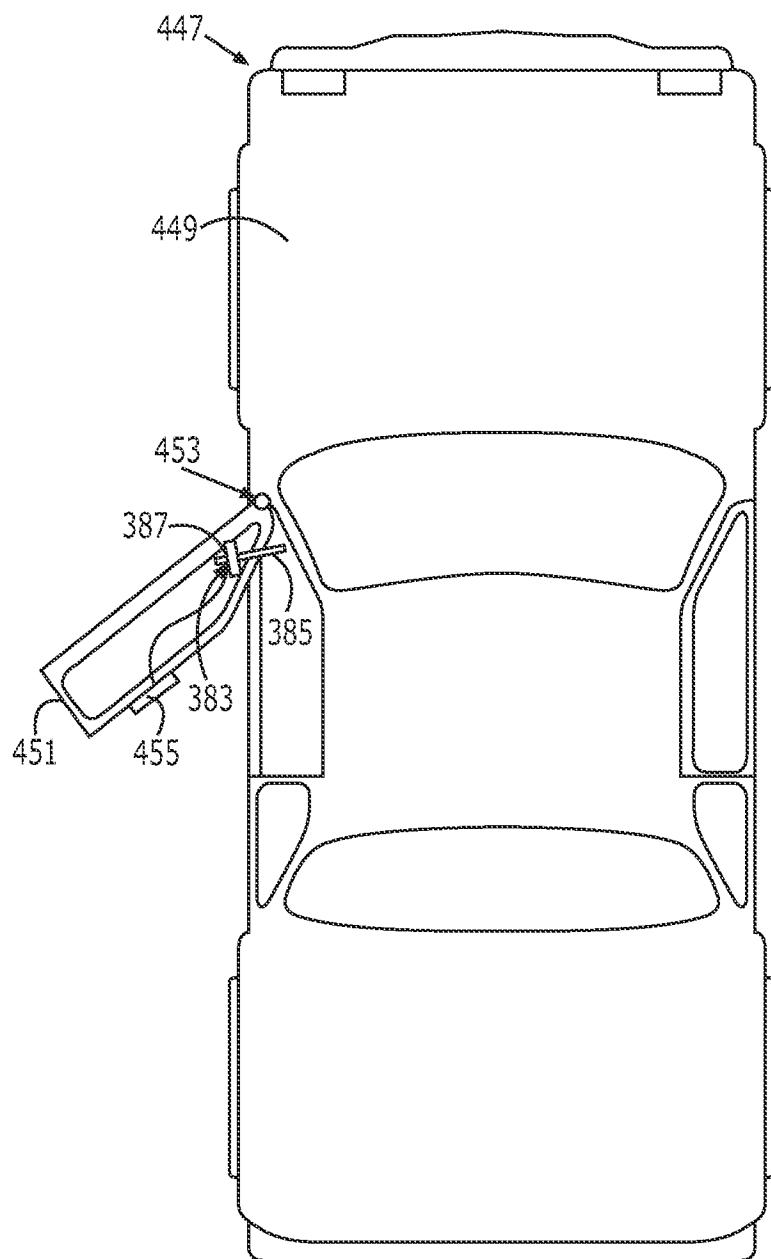


FIG. 43

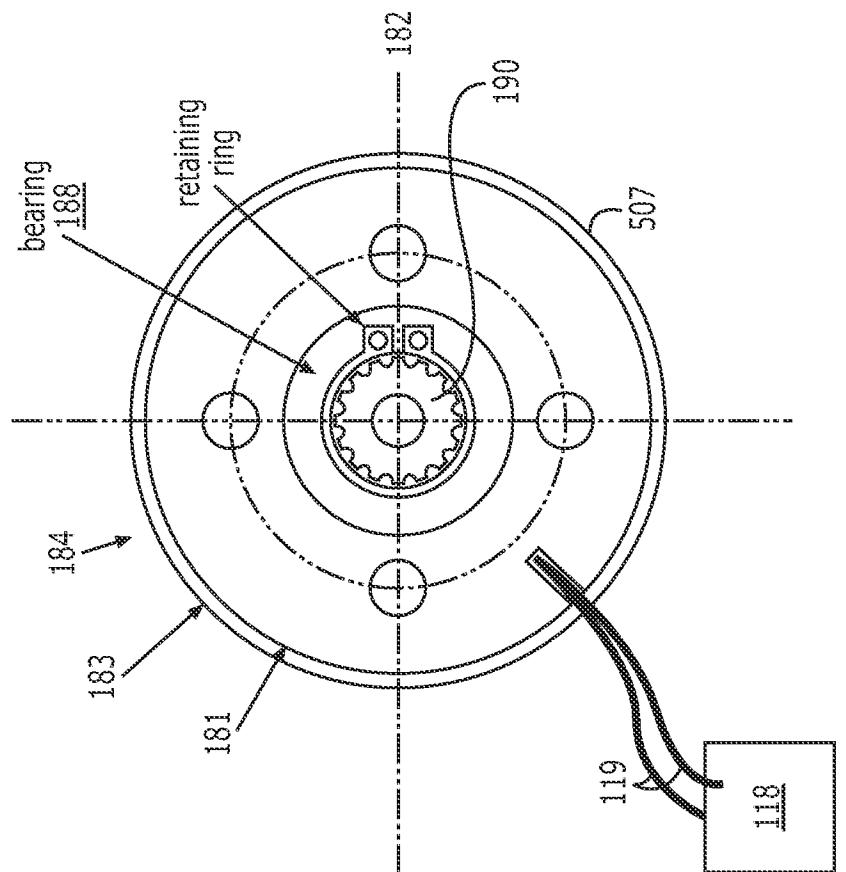


FIG. 44B

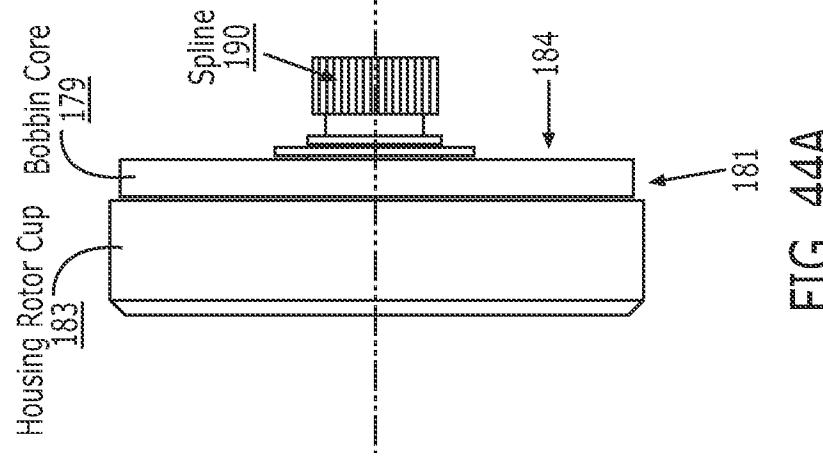


FIG. 44A

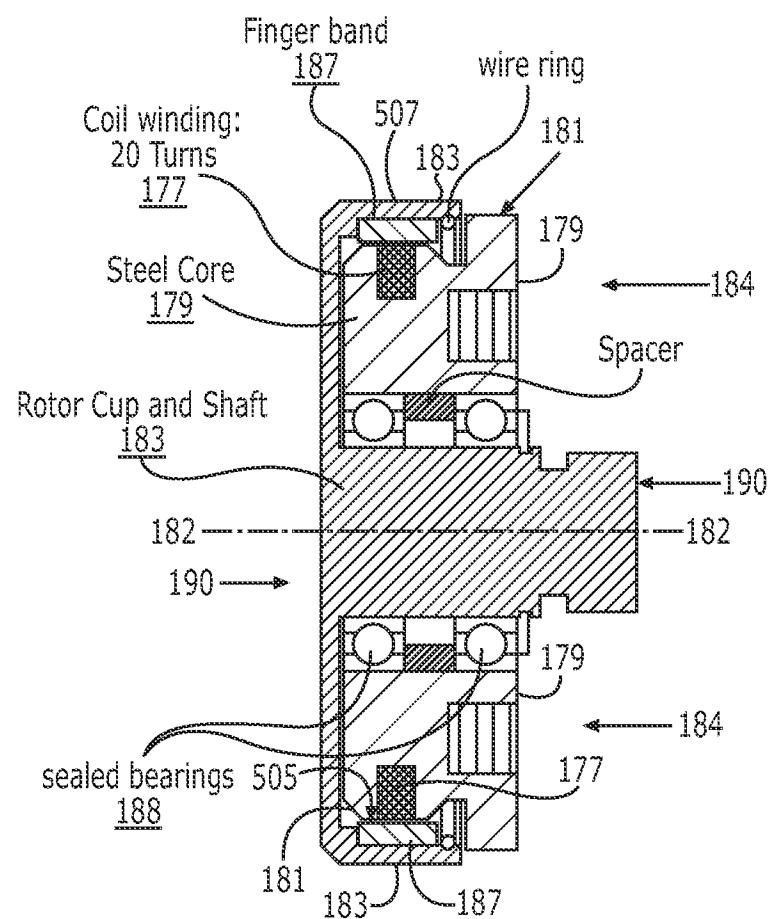
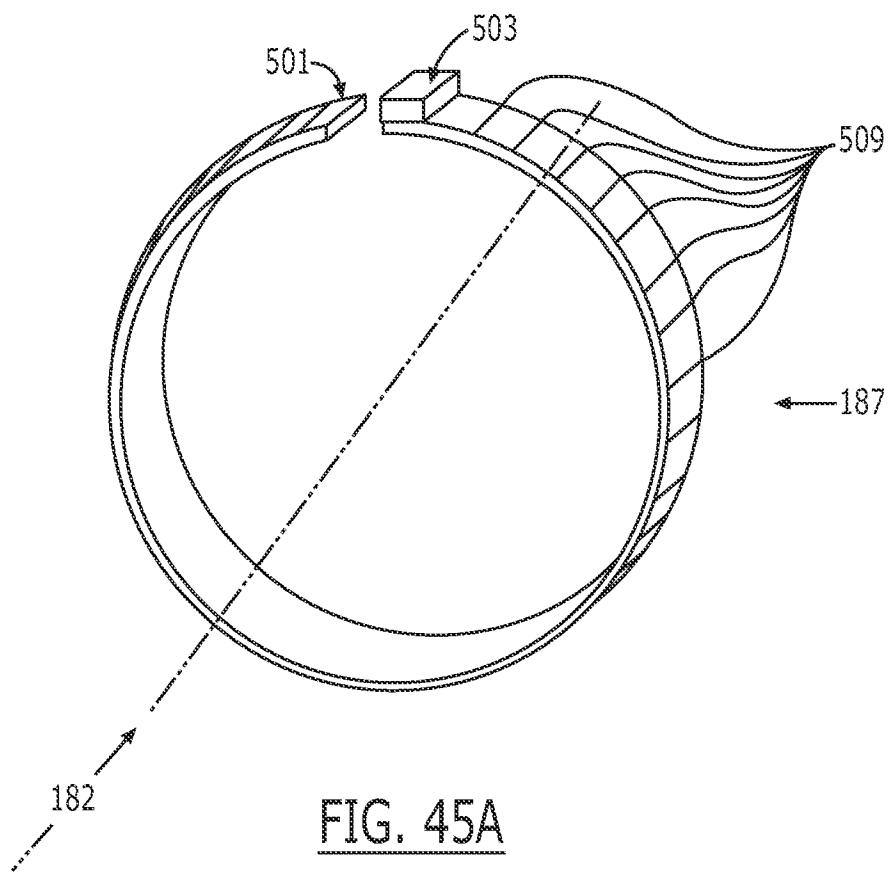


FIG. 44C

21/37



22/37

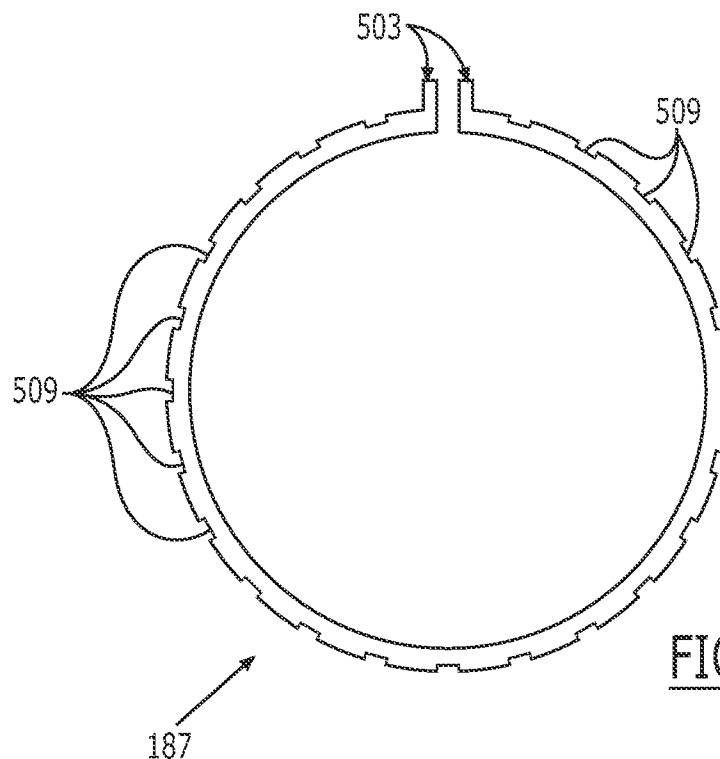


FIG. 45B

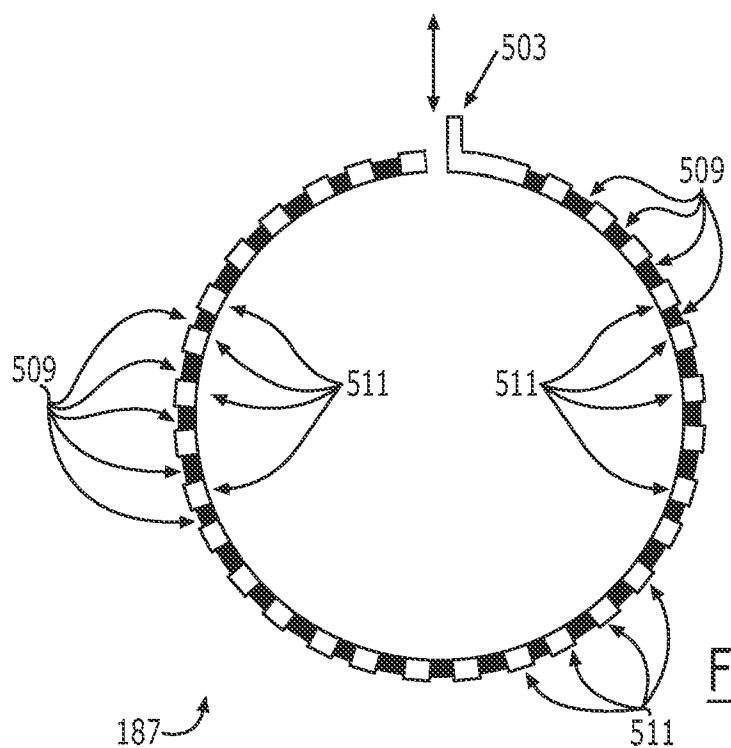


FIG. 45C

23/37

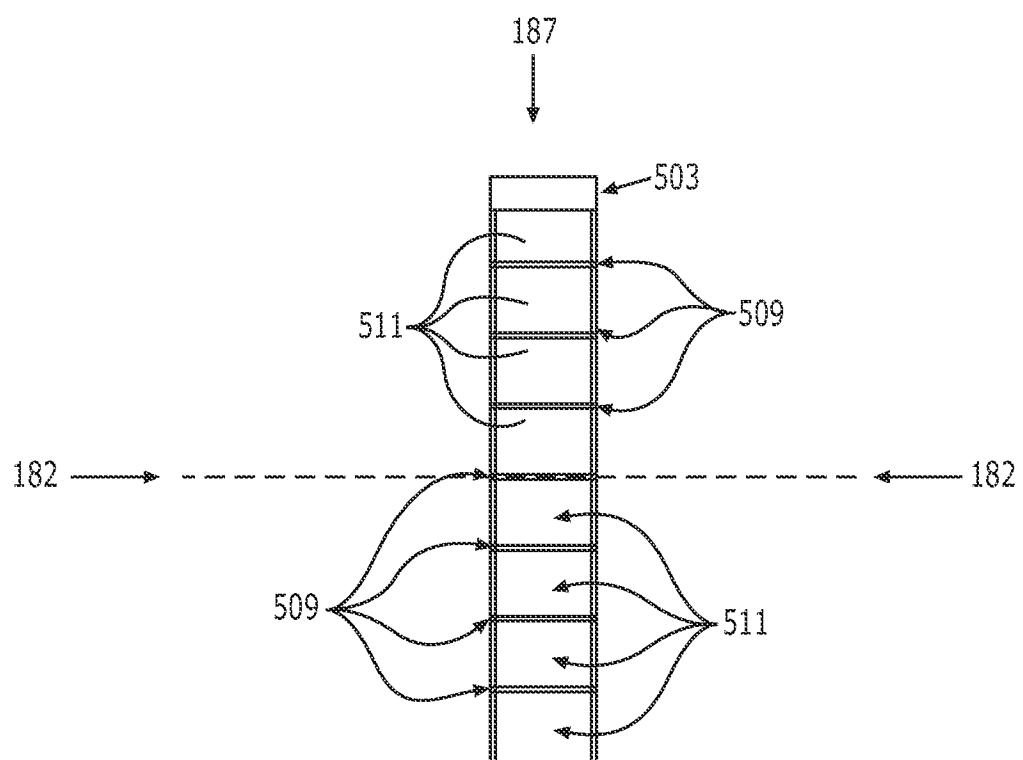
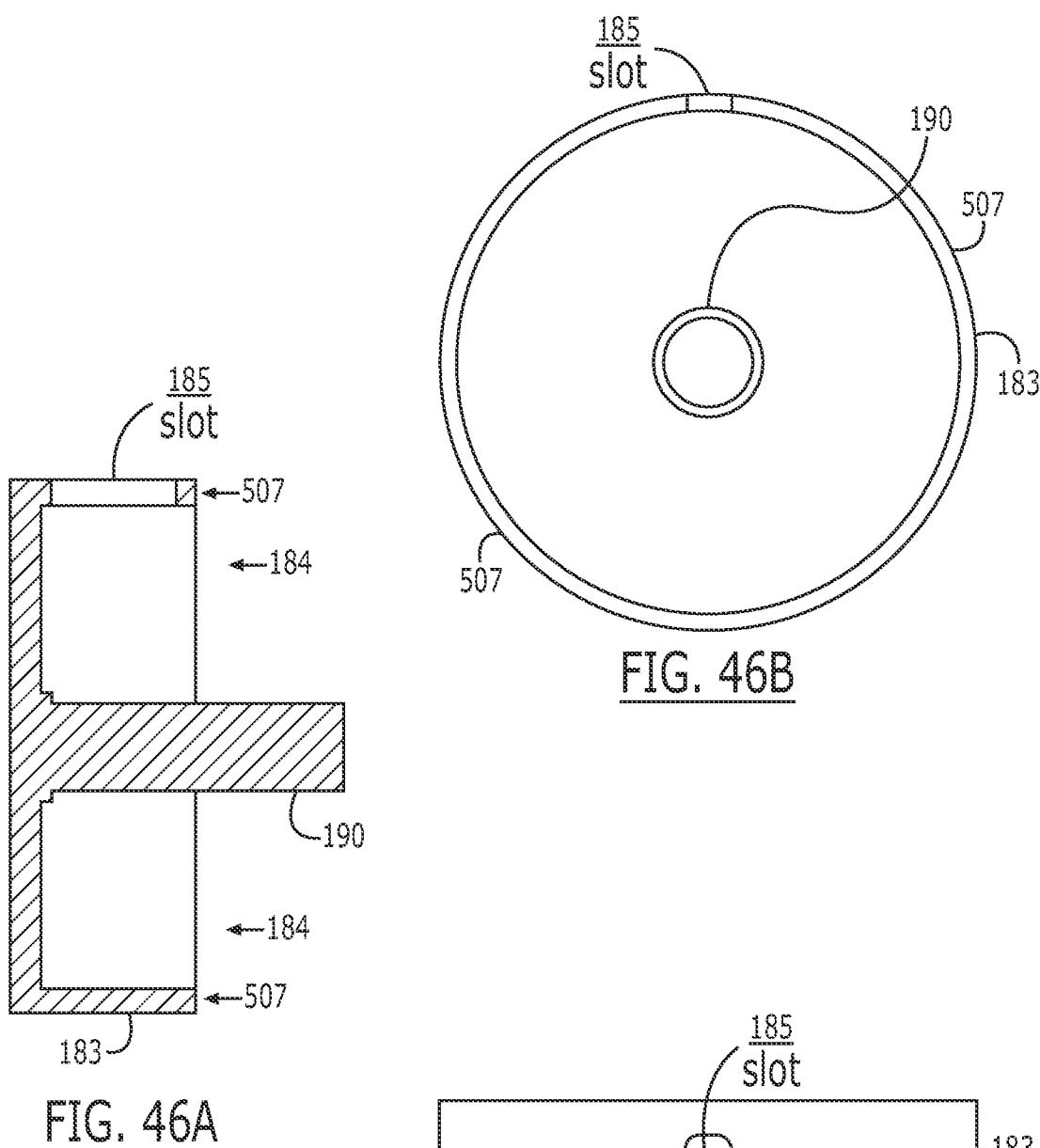
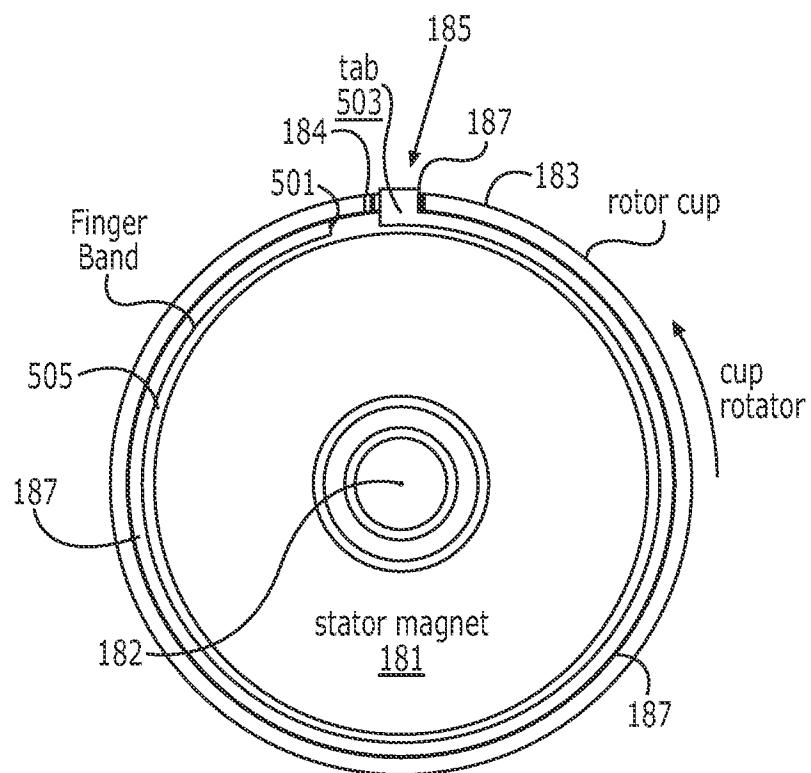


FIG. 45D



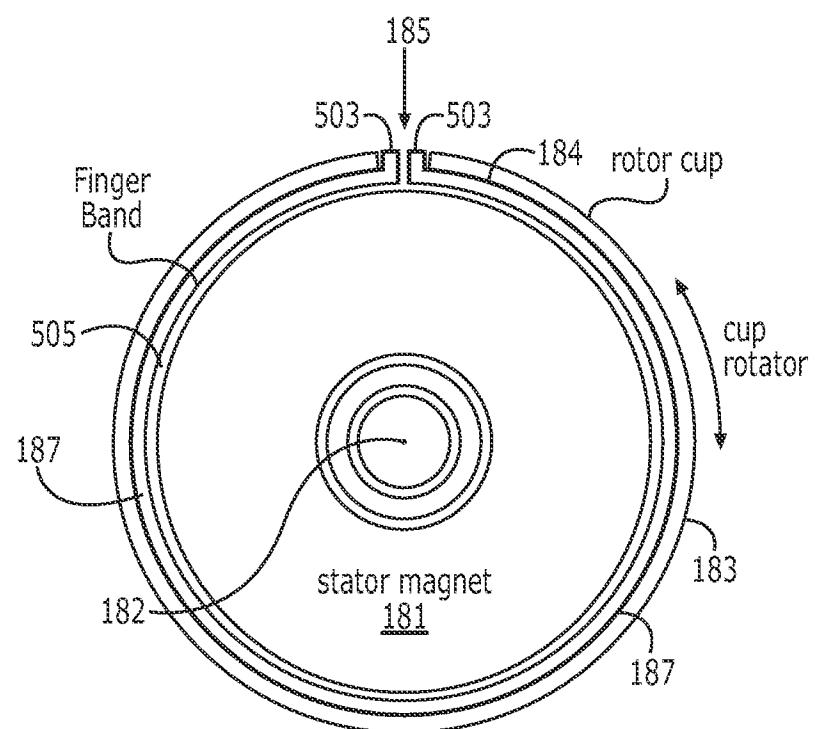
25/37



Magnet off: band releases stator and rotor turns freely

OFF-STATE CONDITION

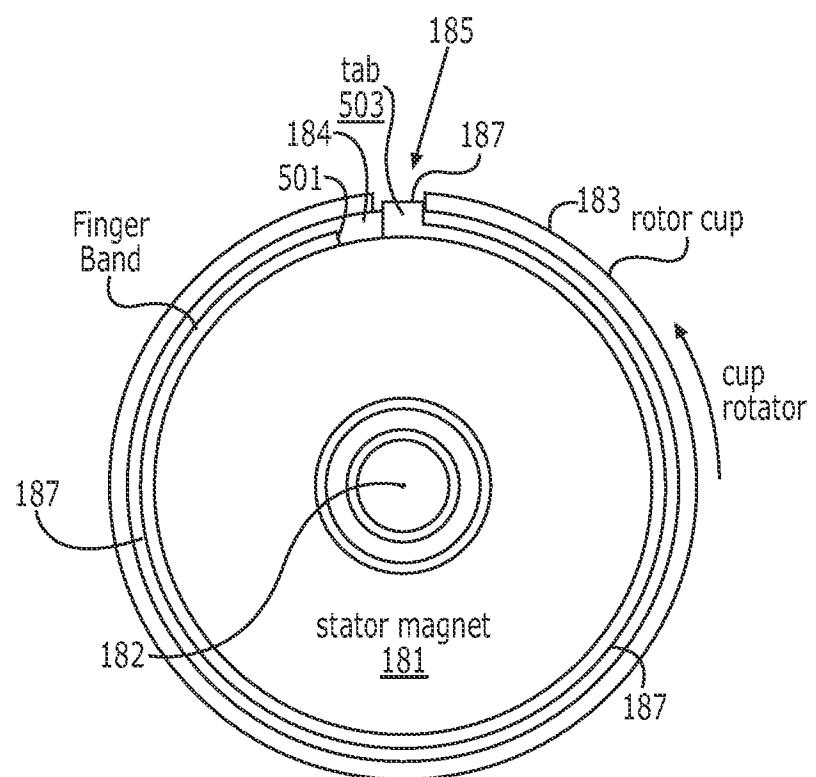
FIG. 47A



Magnet off: band releases stator and rotor turns freely

OFF-STATE CONDITION

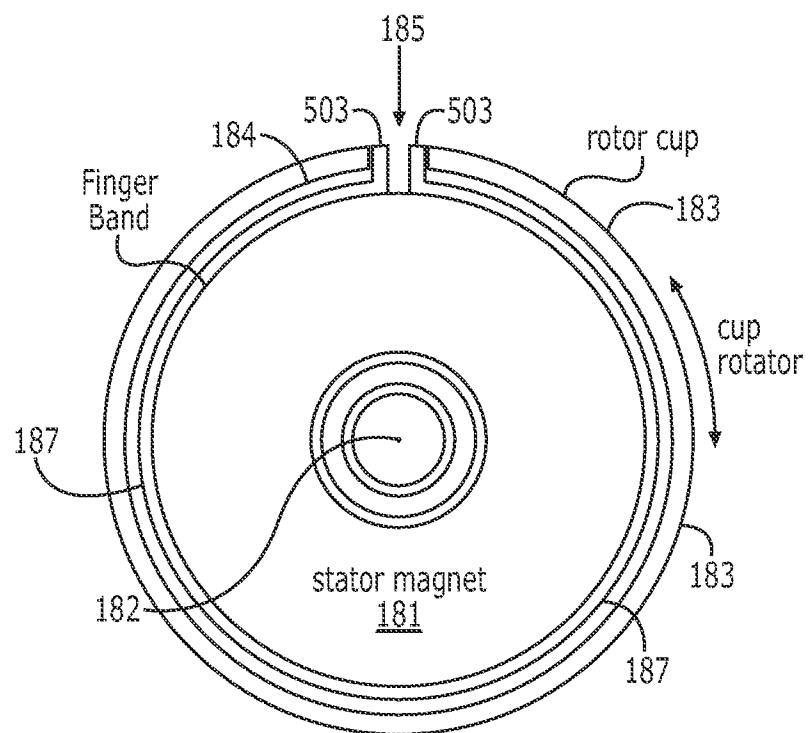
FIG. 47B



Magnet energized: band is attracted and squeezes stator magnet

ON-STATE CONDITION

FIG. 48A



Magnet energized: band is attracted and squeezes stator magnet

ON-STATE CONDITION

FIG. 48B

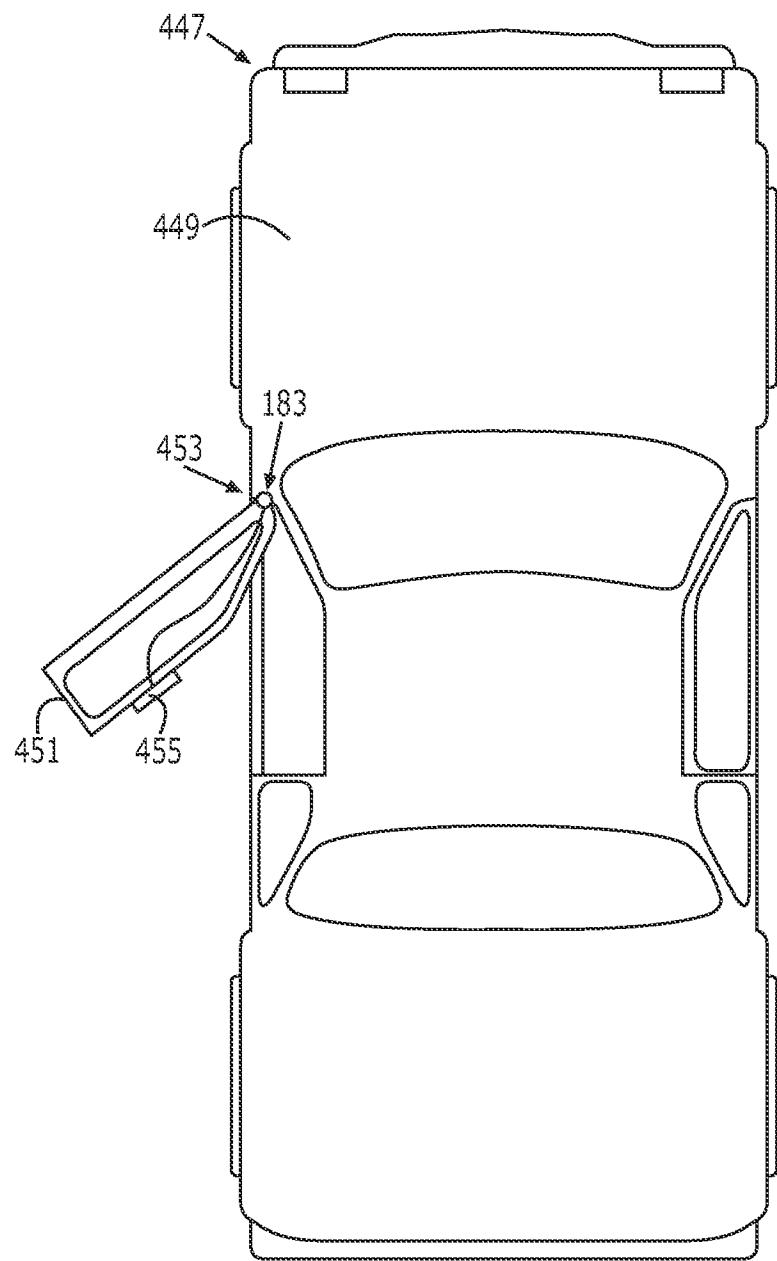


FIG. 49A

30/37

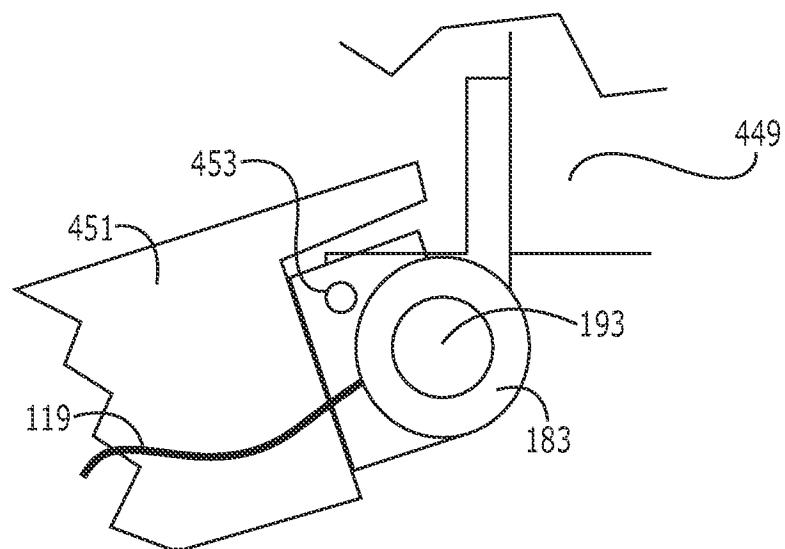
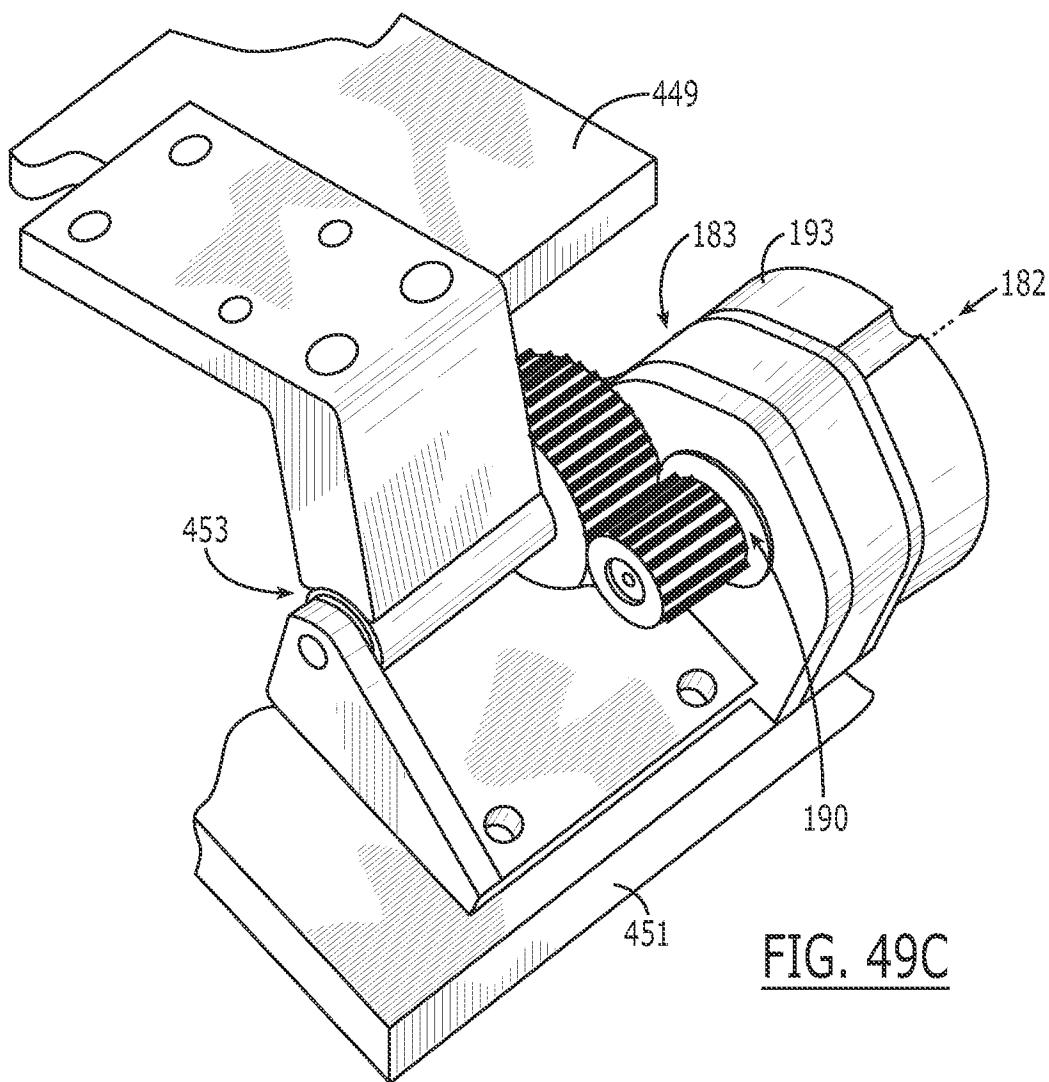


FIG. 49B

31/37



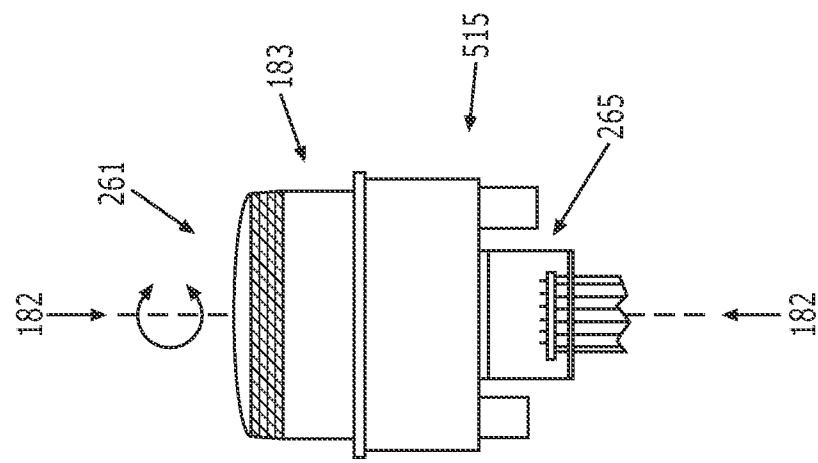


FIG. 50B

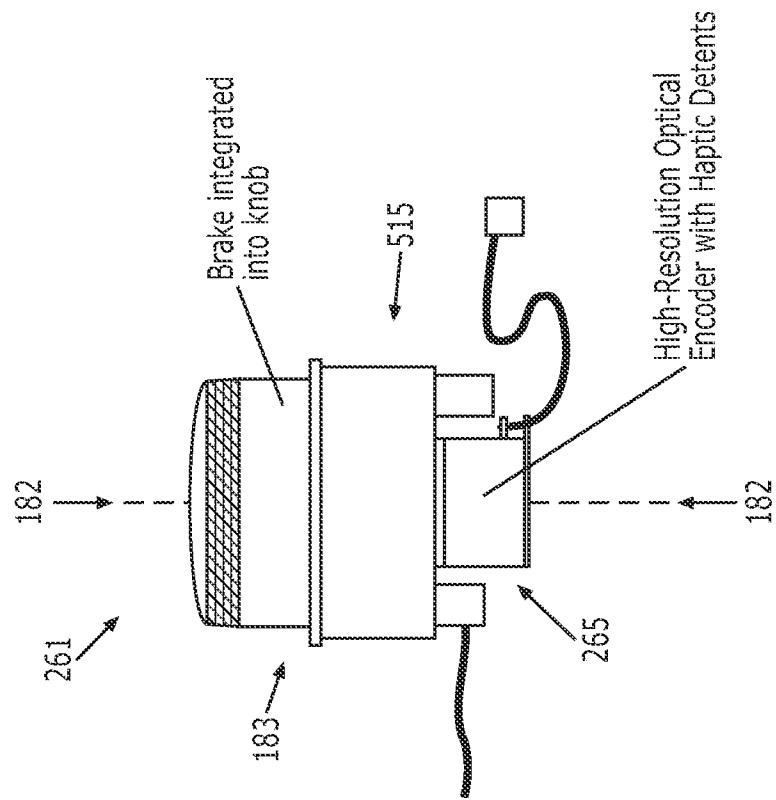
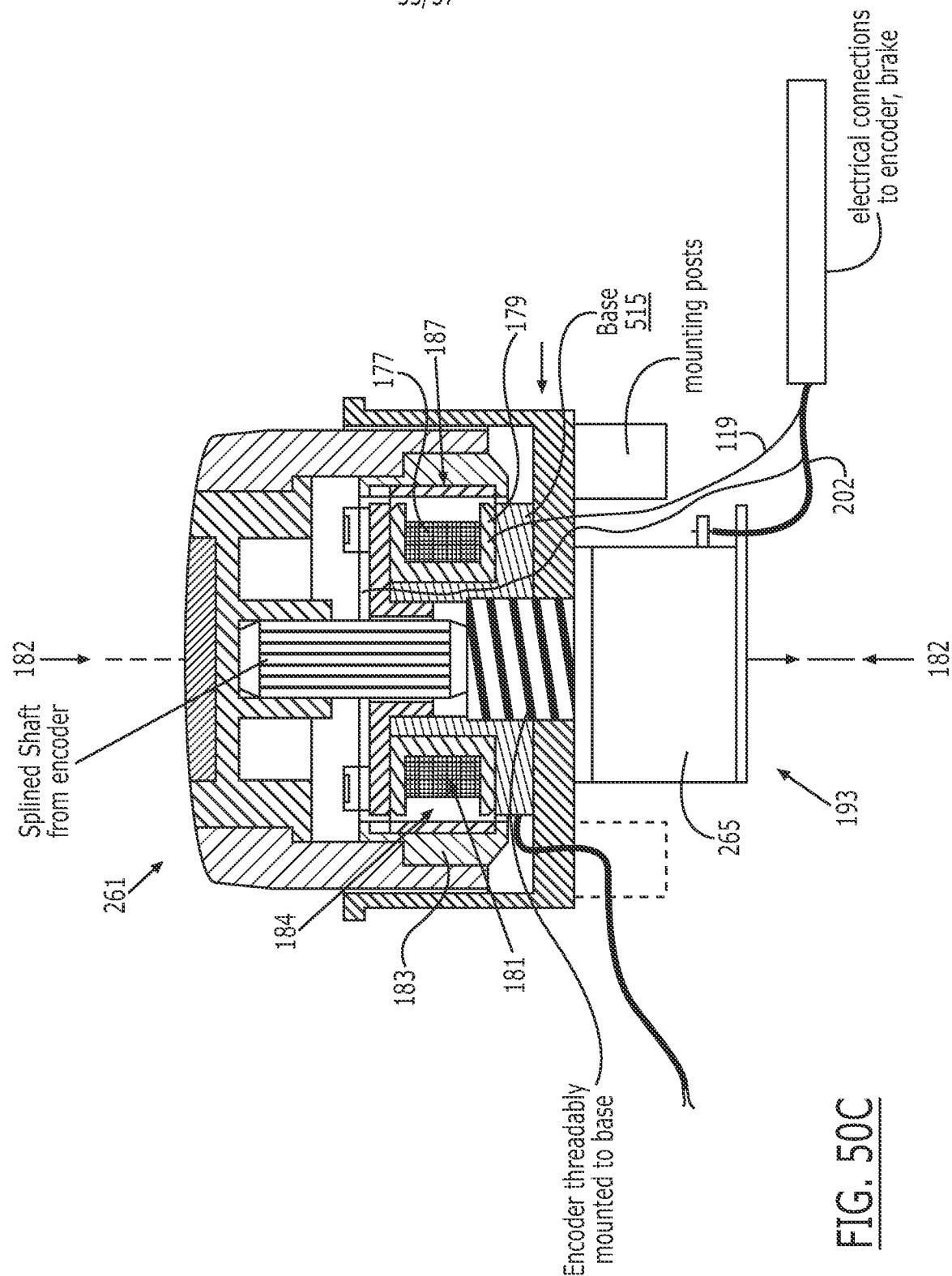
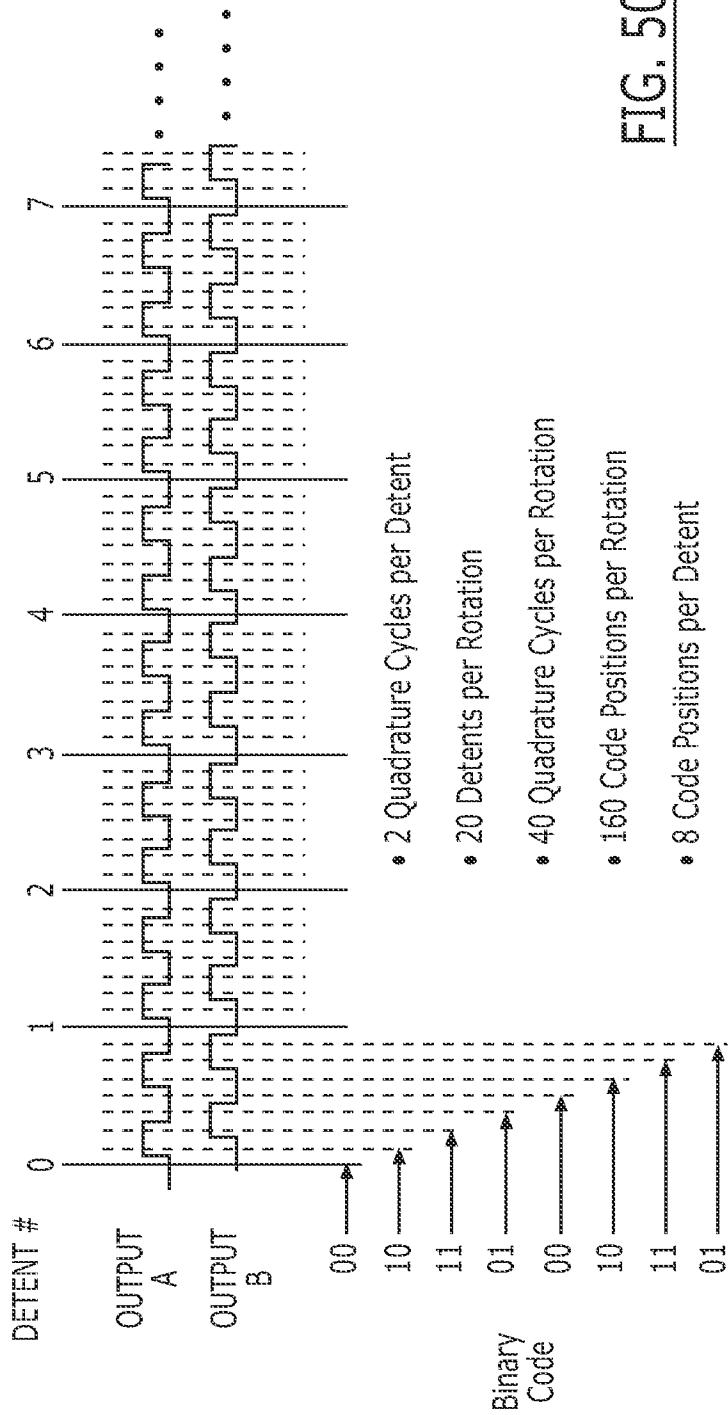


FIG. 50A



Stops, Optical Code and Detent Relationship

HARD STOPS
may be created
at any position



EG. 500

- 160 Code Positions per Rotation
- 8 Code Positions per Detent

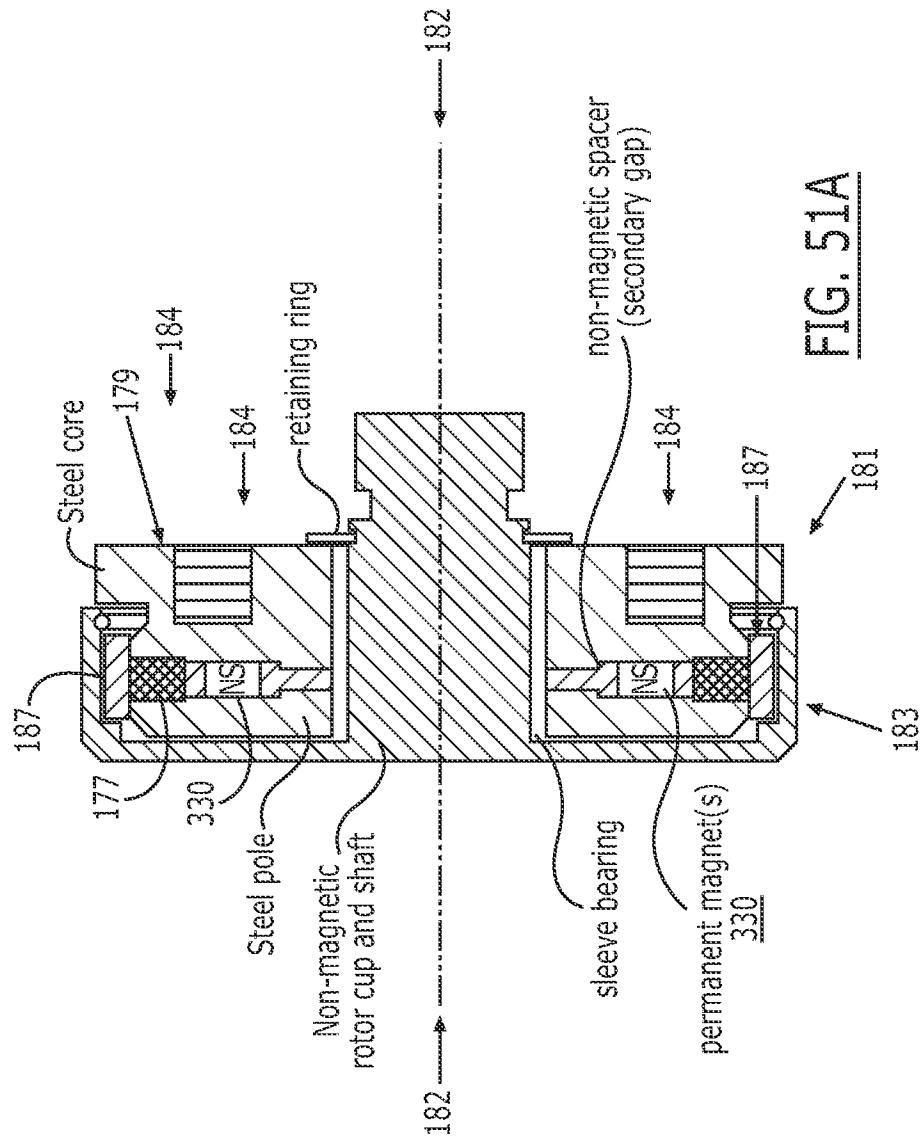


FIG. 51A

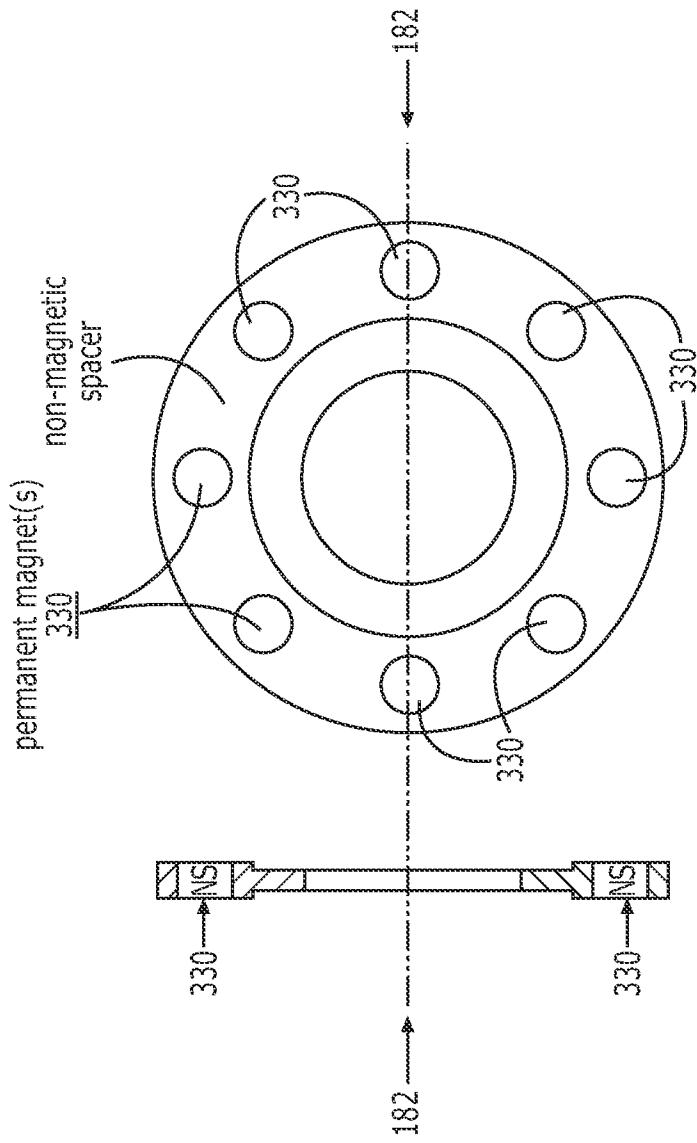


FIG. 51B

FIG. 51C

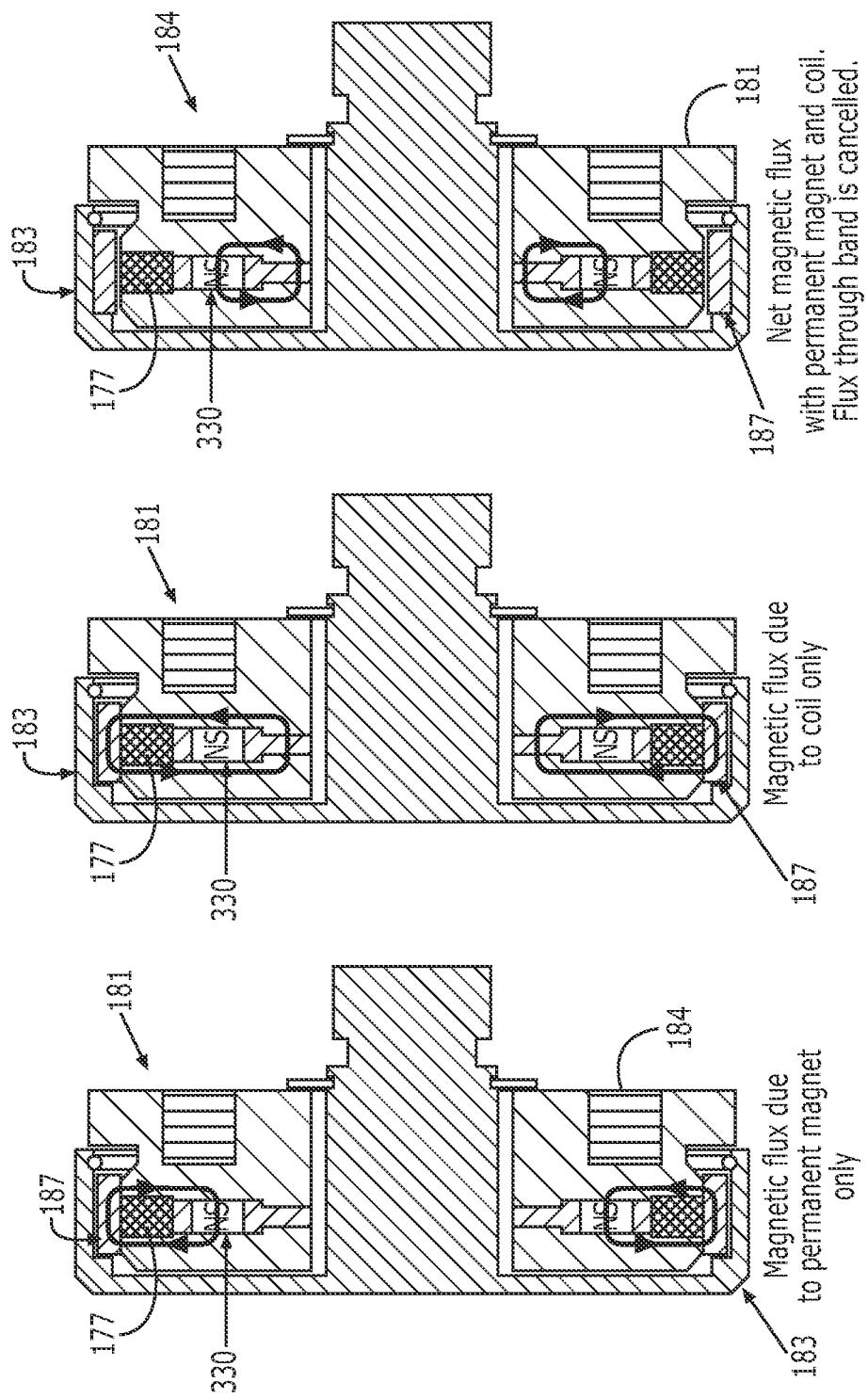


FIG. 51F

FIG. 51E

FIG. 51D